Allen Patricia L Form 4

# December 10, 2010

### UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

**SECURITIES** 

**OMB APPROVAL OMB** 

3235-0287 Number:

January 31, Expires: 2005

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response... 0.5

10% Owner

if no longer subject to Section 16. Form 4 or Form 5

Check this box

obligations may continue.

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

30(h) of the Investment Company Act of 1940 See Instruction

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person \* 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading Allen Patricia L Issuer

Symbol

**ALNYLAM** PHARMACEUTICALS, INC.

[ALNY]

\_X\_\_ Officer (give title Other (specify (Last) (First) (Middle) 3. Date of Earliest Transaction below)

(Month/Day/Year) 12/08/2010

(Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check

> Filed(Month/Day/Year) Applicable Line)

> > \_X\_ Form filed by One Reporting Person Form filed by More than One Reporting

Director

(Check all applicable)

VP of Finance and Treasurer

Person

CAMBRIDGE, MA 02142

300 THIRD STREET

(State) (City) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1.Title of 3. 4. Securities 5. Amount of 6. Ownership 7. Nature of

2. Transaction Date 2A. Deemed Security (Month/Day/Year) Execution Date, if TransactionAcquired (A) or Securities Form: Direct Indirect Beneficially (Instr. 3) Code Disposed of (D) (D) or Beneficial (Instr. 8) (Instr. 3, 4 and 5) Indirect (I) (Month/Day/Year) Owned Ownership Following (Instr. 4) (Instr. 4)

> Reported (A) Transaction(s) or

(Instr. 3 and 4) Code V Amount (D) Price

by Common I Managed 1,165 Stock

Account (1)

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

Persons who respond to the collection of **SEC 1474** information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transactic Code (Instr. 8)	5. Number of orDerivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Option (right to buy)	\$ 9.14	12/08/2010		A	25,000	(2)	12/08/2020	Common Stock	25,000

# **Reporting Owners**

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Allen Patricia L 300 THIRD STREET CAMBRIDGE, MA 02142

VP of Finance and Treasurer

### **Signatures**

/s/ Patricia L.
Allen

\*\*Signature of Date

\*\*Signature of
Reporting Person

## **Explanation of Responses:**

- \* If the form is filed by more than one reporting person, see Instruction 4(b)(v).
- \*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) The reporting person owns 1,165 shares of ALNY common stock under the ALNY 401(k) plan as a result of the ALNY 401(k) matching contribution program.
- (2) The stock option vests as to 25% of the shares on the 1st anniversary of the date of the stock option grant and as to an additional 6.25% of the shares each successive three month period thereafter.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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